

SDS No. 037-C231439 First issue: 2016/07/29 Revised: 2019/11/13

Safety Data Sheets

1. Identification

Product Name : Maintenance Liquid 11
Order No. : ML011-Z-K2 / ML011-Z-B2

General Use : Cleaning solution for ink jet printer
Product Description : Washing liquid for UV curable ink

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Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone No. : +81-268-64-2413

Importer / Distributor Established in USA

Company Name : MIMAKI USA, INC.

Address : 150 Satellite Boulevard NE, suite A, Suwanee, Georgia 30024,

U.S.A.

Telephone No. : +1-678-730-0170

Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)

+1 215 207 0061

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquid : Not classified

Health Hazards

Acute Toxicity – Oral : Not classified
Acute Toxicity – Dermal : Not classified
Skin Corrosion / Irritation : Not classified
Eye Damage / Irritation : Not classified
Toxic to Reproduction : Not classified
Specific Target Organ Toxicity : Not classified

(Repeated Exposure)

Environmental Hazards

Hazardous to the Aquatic : Category 3

Environment - Acute Hazard



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Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

The above list does not include category being non-classifiable or not-applicable.

[HCS Label Elements]

Symbol None

Signal Word

None

Hazard Statements

H402 Harmful to aquatic life

Precautionary Statements

[Prevention]

P273 Avoid release to the environment.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.		
1	Higher Alcohols	35-45	Trade Secret		
2	3,6,9,12-Tetraoxahexadecanol	35-45	1559-34-8		
3	2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate	15-35	6846-50-0		

4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor/physician.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical attention.

Skin Contact : Wash with plenty of soap and water. Take off contaminated clothing

and wash before re-use. Get medical attention if irritation develops.

Ingestion : If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute : Not Available



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Delayed : No information on significant adverse effects.

Indication of Immediate

: Treat symptomatically and supportively.

Medical Attention and Special Treatment

Needed, If Needed

Fire Fighting Measures

Flammable Properties : Flash pint 140°C

Auto-Ignition Temperature: Not available

Extinguishing Media : carbon dioxide, regular dry chemical, water spray

Unsuitable Extinguishing Do not use straight streams.

Media

Special Hazards Arising : Slight fire hazard.

from the Chemical

Hazardous Combustion : oxides of carbon

Products

Fire Fighting : Move container from fire area if it can be done without risk. Do not

Measures scatter spilled material with high-pressure water streams. Cool

containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products. Stay upwind and

keep out of low areas.

: Wear full protective fire fighting gear including self contained Special Protective

breathing apparatus (SCBA) for protection against possible Equipment and

Precautions for exposure.

Firefighters

Accidental Release Measures

Personal Precautions, : Wear personal protective clothing and equipment, see Section 8.

Avoid release to the environment. Protective Equipment

and Emergency

Procedures



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Methods and Materials : Stop leak if possible without personal risk. Reduce vapors with

for Containment and water spray.

Cleaning Up Small spills: Absorb with sand or other non-combustible material.

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low

areas.

7. Handling and Storage

Precautions for Safe : Avoid contact with eyes, skin and clothing. Wear protective eye/face

Handling protection. Avoid release to the environment.

Conditions for Safe : Store and handle in accordance with all current regulations and

Storage, including any standards. Store in a well-ventilated place. Keep away from

Incompatibilities incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Limit Values : ACGIH, OSHA, and NIOSH have not developed exposure limits for

any of this product's components.

Component Biological : There are no biological limit values for the component(s) of this

Limit Values product.

Exposure Controls

Occupational Exposure Controls

Appropriate : Provide local exhaust or process enclosure ventilation system. Ensure

Engineering Controls compliance with applicable exposure limits.

Personal Protection

Respiratory : Consult with a health and safety professional for specific respirators

Protection appropriate for your use.

Vapor Respirato

Hand Protection : Wear appropriate chemical resistant gloves.



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Eye Protection : Wear splash resistant safety glasses.



Skin Protection : Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Clear

Odor : Practically odorless

pH : Not available

Boiling Point / Boiling Range : 280-360°C

Melting Point / Melting Range : -5-0℃

Decomposition Temperature : Not available Flash Point : 140° C (infer) Flammability (Solid, Gas) : Not applicable Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure ∶ under 1.3Pa(20 °C)

Explosive Properties : Not available Oxidizing Properties : Not available Specific Gravity : 0.92 (Water = 1)

Solubility : Soluble in methanol, acetone
Water Solubility : Almost insoluble in water.

Partition Coefficient (n-octanol / Water) : Not available Viscosity : Not available

Vapor Density : 9.85

Evaporation Rate : Not available

VOC : 100%



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10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable at standard temperatures and pressure.

Conditions to Avoid : Stable under normal handling and storage conditions.

Incompatible Materials : Strong oxidizing agents

Hazardous : Combustion: oxides of carbon

Decomposition

11. Toxicological Information

Acute Toxicity : The component(s) of this material have been reviewed in various

Component Analysis - sources and no selected endpoints have been identified.

LD50/LC50

Information on Likely Routes of Exposure
Inhalation : Not available
Ingestion : Not available
Skin Contact : Not available
Eye Contact : Not available
Immediate Effects : Not available

Delayed Effects : No information on significant adverse effects.

Medical Conditions : No information available for the product.

Aggravated by Exposure

Irritation/Corrosivity : Not available

Data

Respiratory : Not available

Sensitization

Dermal Sensitization : Not available Germ Cell Mutagenicity : Not available

 $\hbox{Carcinogenicity} \qquad \quad \hbox{: No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for }$

the component(s) of this product.

Reproductive Toxicity : Not available

Specific Target Organ : No target organs identified.

Toxicity - Single

Exposure



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Specific Target Organ

: No target organs identified.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.

12. Ecological Information

Handling is noted because it might influence the environment when

leaking and abandoning it.

Especially, note that the product doesn't flow directly to ground, the

river, and the drain ditch.

: Harmful to aquatic life Ecotoxicity

Component Analysis -

: 2,2,4-Trimethyl-1,3,-pentanediol diisobutyrate

Aquatic Toxicity

Fish	: LC50 18mg/L(96h) (killifish)			
Crustacea	: EC50 300mg/L(24h) (ceriodaphnia dubia)			
algae	: EC50 8.0mg/L(72h)			

Persistence and

: Not available

Degradability

Bioaccumulation : Not available Mobility : Not available Other Toxicity : Not available

13. Disposal Considerations

: Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body

of water.

Disposal Methods

: Dispose in accordance with all applicable regulations.

Disposal of

: Empty containers may contain product residue. Dispose in

Contaminated

accordance with all applicable regulations.

Packaging



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14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN Number : Not regulated
Class : Not regulated
Packing Group (PG) : Not regulated
Proper Shipping Name : Not regulated

15. Regulatory Information

U.S. Federal : None of this products components are listed under SARA Sections

Regulations 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR

370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4),

TSCA 12(b), or require an OSHA process safety plan.

U.S. State Regulations : None of this product's components are listed on the state lists from

CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)

Chemical Inventory Listings

Component	US	CA	EU	AU	JP	KR	CN
Product	Yes	DSL	EIN	Yes	Yes	Yes	Yes

16. Other Information

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code -



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International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of LIstsTM - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

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